Supply Chain Management

Introduction

The Bachelor of Science Degree in Supply Chain Management will prepare students for a career in the supply chain profession by providing specialized skills in an increasingly complex and highly technical field. The program integrates selected areas of engineering, business, management, operations, and processes.

The supply chain encompasses the flow of products and information across all companies from the lowest level supplier through the end customer. Supply Chain Managers focus on designing, managing, integrating and optimizing financial and operational performance of the supply chain. Key activities include: launching products, forecasting demand, managing inventory, sourcing suppliers, processing customer orders, planning and ordering materials, scheduling labor, materials and equipment, lean manufacturing, managing quality, managing logistics and transportation, warehousing, spare parts, and returns.

The program addresses knowledge, skills, and applied research essential to supply chain management, including instruction to improve customer service, minimize costs, improve quality as well as the application of best practices and the effective use of technology. Students participate in hands-on, capstone courses and internships to provide experiential learning. Efficient management of the supply chain is critical to the success of a company and students should find their skills in high demand.

General Requirements
Bachelor of Science Degree

Total for graduation	124 credits
General Education	42 credits
Core Requirements	82 credits

Program Requirements

General Education

42 credits required

A. Communication Skills — 8 credits

ENGL-101	Freshman English – Composition *or*	
ENGL-111	Freshman English – Honors I	3
ENGL-102	Freshman English – Reading and Related Writing *or*	
ENGL-112	Freshman English – Honors II	3
SPCOM-100	Fundamentals of Speech	2

B. Analytic Reasoning — 6 credits

MATH-123	Finite Math	4
STAT-130	Elementary Statistics	2

C. Health and Physical Education — 2 credits

Courses must be from areas of health, physical education or nutrition.

D. Humanities and the Arts — 9 credits

Courses must be from three or more areas including art history, creative arts, foreign language and culture, history, literature, music appreciation, per forming arts and philosophy.

E. Social and Behavioral Sciences — 9 credits

ECON-210	Principles of Economics	3
GEOG-251	Introduction to Geography and GIS	4

Remaining course must be from anthropology, political science, psychology, or sociology.

F. Natural Sciences (with Lab) — 4 credits

G. Technology — 2 credits

ICT-103	Information and Communication Technology *or*	
MFGE-106	Impacts of Engineering Design	2-3

H. Electives — 2 credits

By taking ECON 215 as an elective, students will be eligible for a Business Minor.

Major Studies

82 credits required

Business and Management Core — 28 credits

BUMKG-100	Introduction to Supply Chain Management	1
BUACT-206	Introduction to Financial Accounting	3
BUACT-207	Intro to Corporate/Managerial Accounting	3
BULGL-318	Business Law I	3
BUMKG-330	Principles of Marketing	3
BUMIS-333	MIS Decision Support Systems	3
BUACT-340	Business Finance	3
BUMGT-304	Principles of Management	3
INMGT-400	Organizational Leadership	3
ENGL-320	Introduction to Business Writing *or*	
ENGL-415	Technical Writing	3

Supply Chain Management Core — 54 credits

Engineering, Operations and Processes

ENGGR-112	Engineering Graphics Fundamentals	3
MFGT-150	Introduction to Engineering Processes	3
INMGT-200	Production/Operations Management	3
INMGT-305	Resource Planning and Materials Management	3
INMGT-320	Quality Tools	3
INMGT-325	Quality Management	3
INMGT-365	Project Management	3
INMGT-440	Lean Enterprise	3
BUMKG-438	Principles of Logistics	3
BUINB-338	International Logistics	3
BUMKG-337	Procurement, Sourcing and SCM	3
BUMKG-458	Negotiation and Supply Chain Contracts	3

Select one of the following:

MFGT-251	Polymer and Composite Processes	3
MFGT-252	Material Removal and Forming Processes	3
MFGT-253	Joining and Casting Processes	3
POWER-260	Introduction to Fluid Power	3
ELEC-204	Electricity Fundamentals	3

Capstone Core

INMGT-314	Industrial Enterprise Practicum	3
INMGT-405	Resource Planning Practicum	3
BUMKG-439	Seminar Supply Chain Systems	3
BUMKG-XXX	Supply Chain Internship	1

Supply Chain Selectives

Take 5 credits from the following:

BUACT-335	Accounting for Management Decisions	3
RC-381	Occupational Safety Loss Control	2-3
TRHRD-360	Training Systems in Business and Industry	3
INMGT-410	Six Sigma Quality Improvement Methods	3
INMGT-350	Facility Planning	3
INMGT-475	Advanced Program Management	3